### Work Order ID 62601

. October 5, 2010 10:28:31 AM

Required Date: 10/19/10

Item ID:

D206-667-103BL

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Crosstube Fwd, Blue

**Start Date:** 

10/05/10

Start Qty: 1.00

Req'd Qty: 1.00



**Eust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: CX

Date:

Date: 10/0/05 Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop



Sequence ID/ Work Center ID

**Draw Nbr** 

Operation Description

**Revision Nbr** 

Set Up/ **Run Hours** 

Tool ID Tool #

Accept Plan Code **Qty** 

Reject Qty

Reject Insp. Number

Stamp

D206-667-143

C

QC:

100

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile and create labels as per PPP D206-667-103 CHG004;

. 25

BG 10-11-03

110

Packaging Packaging

Pick Kit

Packaging

Memo

0.00

0.00

0.00

10-10-01

CNC Bend 2 ·

CNC Alpha 160 Bender

BENDING MACHINE - CROSSTUBES

Memo

0.00

0.00

Bend tube as per Dwg D206-667-143 using CNC bender program

<b>Dart</b>	<b>Aeros</b>	pace	Ltd	4,4

W/O:		and and	WORK ORDER CHANGES									
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NOTE: Date & initial all entries

Work Order II	D 62601
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Page 2

October 5, 2010 10:28:31 AM

Item ID:

D206-667-103BL

Accept



Setup Start



**Revision ID:** 

Item Name:

Crosstube Fwd, Blue

**Start Date:** 

10/05/10

Start Qty: 1.00

**Req'd Qty:** 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Required Date: 10/19/10

Process Plan:

QC: \_\_\_\_

Operation

Description

Date: Date:

Tooling:

0.00

SPC (Y/N):

Set Up/

**Run Hours** 

Date: Date:\_ Run

Start

Stop



Stop

Sequence ID/

**Work Center ID** 

130

QC

QC15- Crosstube Dimensional Check

Siololos 0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Insp. Number Stamp

Memo

Quality Control

W/O:	-	WORK ORDER CHANGES											
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October 5, 2010 10:28:31 AM

Page 3

D206-667-103BL

Accept



Setup Start



Stop

**Revision ID:** 

Item ID:

Crosstube Fwd, Blue **Item Name:** 

**Start Date:** 

10/05/10

Start Oty: 1.00

Required Date: 10/19/10

Req'd Oty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

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Process Plan: Date: Tooling:

QC: Date:

Date:

Tool ID

Start Run

Stop



Sequence ID/ **Work Center ID** 

140



Crosstubes Crosstubes

Description

**Operation** 

Set Up/ Run Hours

Date:

Tool # Plan Code Accept Otv

Reject Oty

Reject Insp. Number Stamp

0.00

SPC (Y/N):

Crosstubes

Memo

0.00

1-Drill holes & ream using drill Jig DT8541 & DT8542 as per Dwg D206-667-143. Drill all (3) top holes.

3-Flip tube and switch drilling Jigs from right to left, left to right. Locate Jigs off existing holes using "T" pins.

4-Drill pilot holes using drill Jig DT8541 & DT8542 as per Dwg D206-667-143. Drill only the top (2) holes.

5-Drill pilot holes as per Dwg D206-667-143. Drill only the top (2) holes.

6-Drill Fwd rivet holes using drill Jig DT8787FWD as per Dwg D206-667-143. Note: Fwd side has 3x top holes.

7-Drill Aft rivet holes using drill Jig DT8787AFT as per Dwg D206-667-141.

8-C'sink holes as per Dwg D206-667-143. Allow rivet to sit below surface to compensate for paint.

9 -Scribe part # and batch # using vibrating stylus as per Dwg D206-667-143 Inside of Cuff(Donot engrave on outside of tube)

10-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D206-667-143

1.15

10-10-27

W/O:			WC	ORK ORDER CHANG	GES											
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Work Orde											
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HandFXtube Hand Finishing Cross	sstubes	Crosstubes Chemical Co	nversion	0.00 SAP	,27						
160  QC  Quality Control		QC3- Inspect Part Finish  Memo	1	0.00	oliolas						

170

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

Dart Ae	rospace Ltd									
W/O:			WORK ORDER CHANGES							
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### Work Order ID 62601

Page 5

October 5, 2010 10:28:31 AM

Item ID:

D206-667-103BL

Accept



Setup Start

Stop



**Revision ID:** 

Item Name:

Crosstube Fwd, Blue

**Start Date:** 

Required Date: 10/19/10

10/05/10

Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

QC: Date:

Process Plan: Date:

Tooling: **SPC (Y/N):**  Date:

Date:

Run Start

Stop

Sequence ID/ **Work Center ID** 

180

Outsource process - NDT

Operation Description

Outsource process - NDT per QSI038 4.1

Set Up/

**Run Hours** 

PD: (2823

**Tool ID** Tool # Plan

Accept Code Qty

Reject **Qty** 

Reject Number

Insp. Stamp

Outsource2

Memo

CROSSTUBES

0.00

CX 10/10/28

190

Packaging

Packaging

Packaging

Memo

0.00

0.00

Ensure copy of NDT results attached to work order.

[c/// 28 (1)

200

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

M 10 10 29 (1)

0.00

W/O: WORK ORDER CHANGES											
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### Work Order ID 62601

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October 5, 2010 10:28:31 AM

Item ID:

D206-667-103BL

Accept

Setup Start

Stop



**Revision ID:** 

**Start Date:** 

Crosstube Fwd, Blue Item Name:

Required Date: 10/19/10

10/05/10

Start Oty: 1.00

Req'd Qty: 1.00

Date:

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

Tooling:

SPC (Y/N):

0.00

Date: Date:

Start Run



Work Center ID

Operation

Description

Set Up/ **Run Hours**  Tool ID

Tool # Plan Code

Accept Qty

Reject Reject **Qty** 

Stop

Number Stamp

Insp.

210

Sequence ID/

SprayPaint **Spray Painting** 

SprayPaint

0.00

1-Prime inside and outside crosstube as per QSI 005 4.2  $\, \overline{\mathcal{B}}$ 

2-Paint outside crosstube with White Imron as per QSI 005 4.2 Deflet Blue B 115506 West Deflet B 115506

PRIME: Start Time:

Fininsh Nime:

PAINT: Start Time: Finish Time:

220

QC14- Inspect Spray Paint

Quality Control

Memo

0.00

Wrap in plastic bag to protect from scratches

0.00

W/O:		WORK ORDER CHANGES									
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### Work Order ID 62601



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October 5, 2010 10:28:31 AM

. Item ID:

D206-667-103BL

Accept



Setup Start



Stop

**Revision ID:** 

**Start Date:** 

Item Name:

Required Date: 10/19/10

Crosstube Fwd, Blue 10/05/10

Start Qty: 1.00

**Req'd Qty:** 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

**Tooling:** 

Date:

Date:

Start Run

Stop

M 10 11 02



QC: \_\_\_\_\_ Date: \_\_\_\_ SPC (Y/N):

Tool ID

Tool # Plan

M 10.11.03

Code

Accept **Qty** 

Reject **Qty** 

Reject Number

Insp. Stamp

230

Crosstubes

Sequence ID/

**Work Center ID** 

Crosstubes

Operation Description Crosstubes

0.00

Set Up/

**Run Hours** 

0.00

1-Install support using 0.03" to 0.06" thick layer of magnobond 6398 per QSI 015. Let cure for 12h after installation and prior to packaging. Note: (2) Aft

holes should be facing up. A/R Magnobond 6398:

2-Install supports and clamps as per Dwg D206-667-143. Torque clamps to 80-100 in lb

3-Install nut plates as per Dwg D206-667-143. Touch-up rivet heads with Imron

paint.

240

QC5- Inspect part completeness to step on W/O

Diolulos

0.00

Memo

0.00

**Quality Control** 

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W/O:			WC	RK ORDER CHANG	ES		·		
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### Work'Order ID 62601

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October 5, 2010 10:28:31 AM

. Item ID:

D206-667-103BL

Accept

Setup Start

Stop

Start



**Revision ID:** 

Item Name:

Required Date: 10/19/10

Crosstube Fwd, Blue

**Start Date:** 

10/05/10

Start Qty: 1.00

Req'd Qty: 1.00

**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

QC: \_\_\_\_\_ Date: \_\_\_\_

Tooling: SPC (Y/N): Date: \_\_\_\_

Run



Stop

Sequence ID/ **Work Center ID** 

250

Packaging Packaging

Operation **Description** 

Pick Kit

Memo

Set Up/ **Run Hours** 

0.00

0.00

Tool ID

Date:

Tool # Plan Code

Accept Qty

Reject Oty

Reject) Insp. Number

Stamp

260

QC

Quality Control

QC4-100% Inspect kits for completeness

0.00

0.00

270

Packaging Packaging

Packaging

Memo

Memo

Identify and pack for shipping as per PPP D206-667-103

Location:

PPP Rev:

W/O:		WORK ORDER CHANGES								
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#### Work Order ID 62601

October 5, 2010 10:28:31 AM



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. Item ID:

D206-667-103BL

Accept

Setup Start

Stop



Revision ID:

Item Name:

Crosstube Fwd, Blue

**Start Date:** 

Required Date: 10/19/10

10/05/10

Start Qty: 1.00

**Req'd Qty:** 1.00



**Cust Item ID:** 

**Customer:** 

Tool ID

Reference:

**Approvals:** 

Process Plan:

Date:

Date:

Tooling: **SPC (Y/N):** 

Date: \_\_\_\_\_

Run Start

Stop



Sequence ID/ Work Center ID

280

Quality Control

Operation Description

QC21- Final Inspection - Work Order Release

Memo

0.00

Set Up/

**Run Hours** 

0.00

Date:

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

10/11/039c mf 10-11-3

W/O:		WORK ORDER CHANGES								
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## . Picklist Print

October 5, 2010 10:28:31 AM

Work Order ID: 62601

' Parent Item:

D206-667-103BL

Parent Item Name: Crosstube Fwd, Blue



**Start Date:** 10/05/10

Required Date: 10/19/10

Page 1

Start Qty: 1.00

Required Qty: 1.00

Com	ments:
Com	ments.

IIP RevA: new issue DD .09.11.23 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D206-667-103TRN	 	Manufactured	No		Mary Control of Contro	110	Each	2.0000	1	1			
Crosstube Turning DetailL										EL.	10-10-	21	<u>,                                   </u>
				<u>Locatio</u>	<u>n</u>	Loc	<u>Oty</u>	Loc Code					
		62631		LG	61426 61428		2 1 1				<del></del>		
D2873-043		Manufactured	No			230	Each	16.0000	2	2	m	10 1	1,03
Nut Plate Assembly	\$ 62380			<u>Locatio</u> ST	<u>n</u>	Loc	<u>Qtv</u> 16	Loc Code	_		_		
					60981		16				_ 		
D2873-045 Wut Plate Assembly		Manufactured	No			230	Each	14.0000	2	2	m/	10-11	1.03
Nut Plate Assembly	B#6237	78		<u>Locatio</u>	<u>n</u>	Loc	<u>Oty</u>	Loc Code					
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## · Picklist Print

Page 2

October 5, 2010 10:28:31 AM

Work Order ID: 62601								
<b>Parent Item:</b> D206-667-103BL								
Parent Item Name: Crosstube Fwd, Blue	***************************************					tart Date: 10 Start Qty: 1.		Required Date: 10/19/10 Required Qty: 1.00
D3595-063-395 Manufactured  RUBBER CUSHION	No		230	Each	14.0000	4 	4	ML 10-11-02
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B#63368		44667		10				
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cut (4)0.063" X 3.95"		60585		4				_
MS20601-AD4W8 Purchased	No		230	Each	174.0000	14	14	m/ 10.11.03
		Location	Lo	e Oty	Loc Code			
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		108521		70				_
		112203		104				-
MS21920-20 Purchased  Clamp (per MIL-DTL-8783C)	No		230	Each	85.0000	4	4	M 10-11.02
		<b>Location</b>	<u>Lo</u>	c Qty	Loc Code			
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### : Picklist Print

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Page 3

Work Order ID: 62601 Parent Item: D206-667-103BL Required Date: 10/19/10 Parent Item Name: Crosstube Fwd, Blue **Start Date:** 10/05/10 Required Qty: 1.00 Start Qty: 1.00 AN5-30A 250 Each 78.0000 No Purchased Location Loc Qty Loc Code ST339 78 112933 3 114437 25 114941 50 250 AN5-32A Purchased No Each 300.0000 Bolt Loc Qty Loc Code Location ST340 300 40 114056 114405 50 115016 50 115108 50 60 115589 115698 50 250 Each 139.0000 **1**10 Purchased No Bolt Location Loc Qty Loc Code ST337 139 113149 139

W/O:			WC	S					
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
							·		
······			· · · · · · · · · · · · · · · · · · ·						
·								<u> </u>	
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No <b>DQA</b>	:	Date:	<del></del>
Resolution:			Disposition	າ:	QA: N/C Clo	sed:		Date:	<del></del>
			WORK ORDI	ER NON-CONFORMAN	NCE (NCR	)			
DATE	STEP	Description of NC	Description of NC Corrective Acti			Section B Verific			Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sectio	n C	Chief Eng	QC Inspector
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: NOTE: Date & initial all entries

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

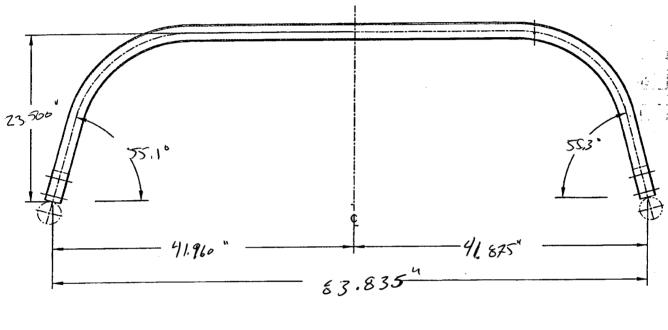
October 5, 2010 10:28:31 AM Work Order ID: 62601 Parent Item: D206-667-103BL **Start Date:** 10/05/10 Required Date: 10/19/10 Parent Item Name: Crosstube Fwd, Blue Start Qty: 1.00 Required Qty: 1.00 250 Each 34.0000 AN960JD516 NAS1149D0563J Purchased No Washer Location Loc Qty Loc Code ST 34 103694 18 12 107534 109287 4 250 86.0000 12 AN970-4 Purchased No Each Washer Loc Qty Loc Code Location ST349 86 36 115531 50 115621 250 Each 899.0000 Purchased No

Location	Loc Qty	Loc Code	
ST139	26		
114813	26		
ST300	873		
, 115156	373		
115594	500		

W/O:				ORK ORDER CHANGI	ES					
DATE	STEP	PRO	DCEDÜRE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
		!								
		! !								
Part No	Part No: PAR #:		Fault Cat	egory:	NCR: Yes	No DQA:	Date: _			
Resolution:			Dispositi	on:	_ QA: N/C Clo	losed: Date:				
NCR:			WORK ORE	DER NON-CONFORMA	NCE (NCR	)		•		
DATE	STEP	Description of NC	Initial	Corrective Action Section	on B Sign &	Verification		Approval		
		Section A	Chief Eng	Action Description Chief Eng	Date	Section C	Chief Eng	QC Inspector		
	!									
		·								
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		1								
1										
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DART AEROSPACE LTD	Work Order:	
Description: Crosstube High Fwd (206L)	Part Number:	D206-667-103
Inspection Dwg: D206-667-143 Rev: C		Page 1 of 1

Required Dimension	Min	Max	
Height	23.39	23.65	
1/2 Span	41.79	42.05	
Angle	54	56	
Total Span	83.58	84.10	



	Comments
QC15 Inspection Date	

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	09.06.26	Dimensions updated per Dwg Rev C	KJ	
С	09.10.22	Minimum height dimension revised	KJ	1/



ltem	Qty -143	Part Number	Description
1	Х	D206-667-143	CROSSTUBE ASSEMBLY (206L HIGH FWD)
2	1	D6002-115	CROSSTUBE
3	2	D2873-043	NUT PLATE
4	2	D2873-045	NUT PLATE
5	2	D2891-1	SUPPORT
6	4	D3595-063-395	RUBBER CUSHION
7	4	MS21920-20	CLAMP (OR MS21920-21)
8	. 14	MS20601AD4W8	RIVET (OR NAS9302B-4-8)
9	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RB 0-120- 023 ADHESIVE (TEXTRON/BELL SPEC. 299- 947-100, TYPE II, CLASS 2 ADHE SIVE)

#### **GENERAL NOTES:**

1) MATERIAL: MANUFACTURED FROM D6002-115

FINISHED LENGTH = 104.98±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

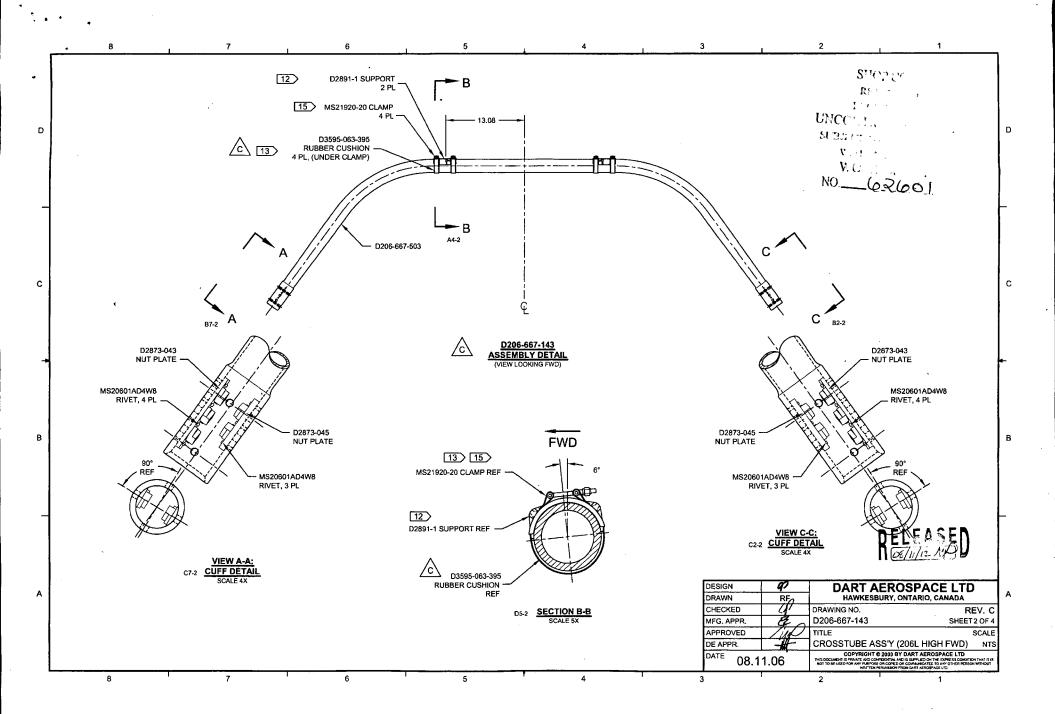
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
- IDENTIFICATION: SCRIBE DART PART NUMBER "D206-667-143" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.
- WEIGHT: 15.5 lbs
- 8) PART IS SYMMETRIC ABOUT CENTERLINE.
- RUN CUTTER OFF PART WHERE INDICATED. BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 10 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
- 12) INSTALL D2891-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 13) INSTALL MS21920-20 CLAMPS (OR -21) WITH D3595-063-395 RUBBER CUSHIONS TO SECURE THE D2891-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMP MECHANISMS ARE LOCATED ON CROSSTUBE SUPPORTS.
- 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP CUTY RITURL, O ENCINEERO SA UNCONTROLL : COLY SUBJECT TO AND A COLUMN WITHOUTMAN WORK OF BURY NO.\_62601. CX10/10/05

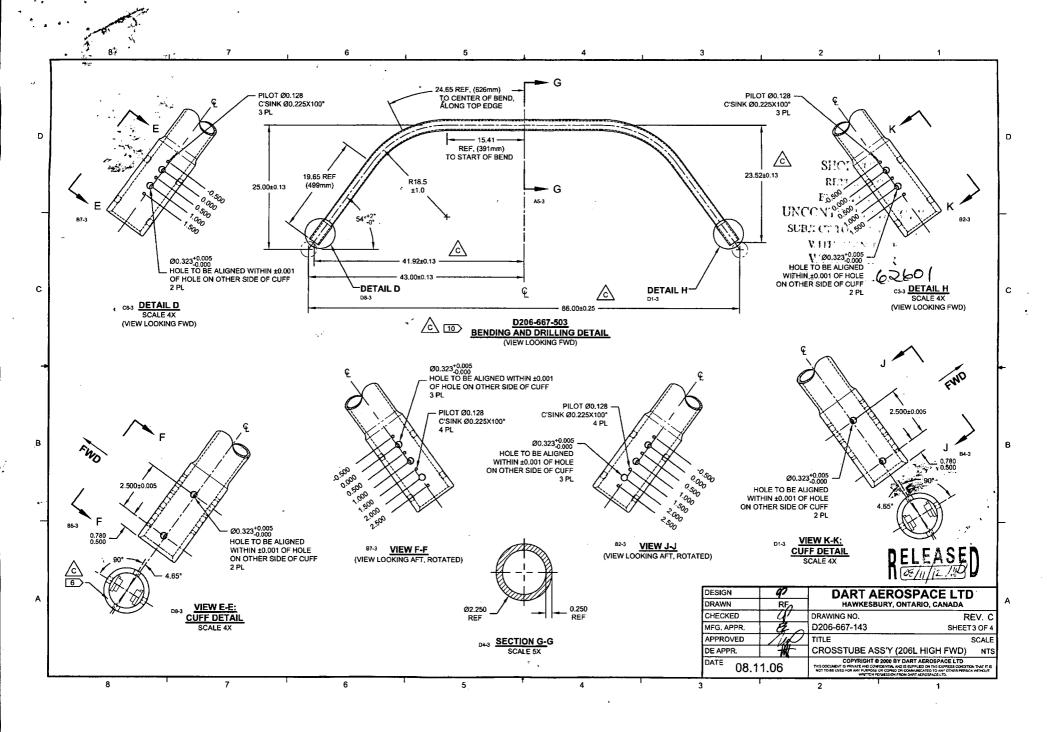


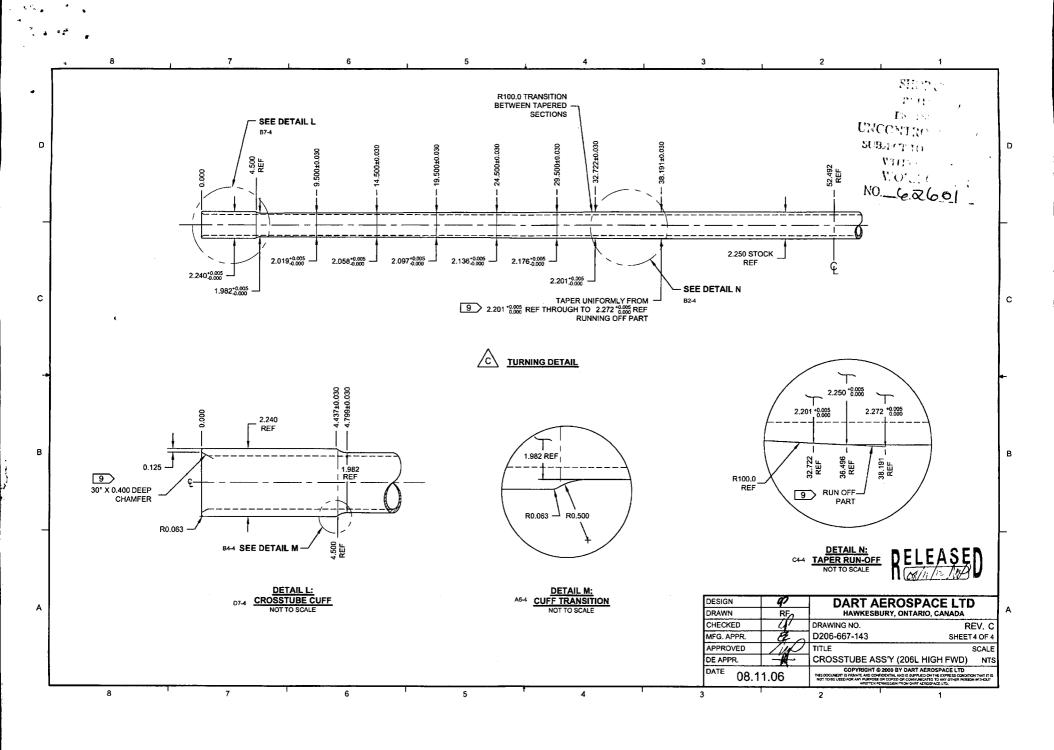
С	REVISE GENERAL NOTES/PART LIST (ZN D7-1); REORGANIZED VIEWS AND REFORMATTED DRAWING TO CURRENT STANDARDS. D3595-063-395 WAS D2856-400-694 (ZN D6-2 & A5-2); REMOVED REF. & ADD TOLERANCE (ZN D3-3, C4-3, C5-3);						
			(ZN A8-3) PER NCR 210; MOVED PDATED TOLERANCE TO SHEET 4.				
В	ADD HO	<del></del>	PLATES FOR COMPATABILITY	PH	05.07.26		
Α	NEW IS	SSUE		CP	00.11.17		
REV.		D	ESCRIPTION	BY	DATE		
DESIGN		P	DART AEROSPACE LTD				
DRAWN		RF <sub>2</sub>	HAWKESBURY, ONTARIO, CANADA				
CHECKE	ĒD	ar	DRAWING NO.		REV. C		
MFG. APPR.			D206-667-143		SHEET 1 OF 4		
APPROVED /			TITLE SCALE				
DE APP	R.	<del>-</del> #-	CROSSTUBE ASSY (206L HIGH FWD) NTS				
DATE	08.1	1.06	COPYRIGHT © 2000 BY DART AS THIS DOCUMENT IS PRIVATE AND COMPLICATION AND IS SUPPLIED NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICA	ON THE EXPRE	ES CONDITION THAT IT 45		

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#### **PARTS LIST** 5.0

Item	Qty -011	Qty -013	Qty -015	Qty -101	Qty -201	Qty -103	Qty -203	Qty -105	Qty -205	Part Number	Description
	-011 X	-013	-010	-101	-201	.00	~~~	. 50		D206-667-011	SPACER BLOCK KIT
	_^_	X								D206-667-013	NUT PLATE KIT (-101/-103/-105/-203/-205)
		_^_	$\overline{\mathbf{x}}$		_					D206-667-015	NUT PLATE KIT (-201)
			_^_	Х						D206-667-101	CROSSTUBE INSTALLATION,
											206A/B HIGH FWD
					Х					D206-667-201	CROSSTUBE INSTALLATION,
					^						206A/B HIGH AFT
						X				D206-667-103	CROSSTUBE INSTALLATION,
											206L/L-1/L-3/L-4 HIGH FWD
							Х			D206-667-203	CROSSTUBE INSTALLATION,
											206L/L-1/L-3/L-4 HIGH AFT
								X		D407-667-105	CROSSTUBE INSTALLATION, 407 HIGH FWD
									X	D407-667-205	CROSSTUBE INSTALLATION, 407 HIGH AFT
											ODOGOTI IDE ACCEMBI V. 206A/B HICH EMD
1				1						D206-667-141	CROSSTUBE ASSEMBLY, 206A/B HIGH FWD
2					1					D206-667-241	CROSSTUBE ASSEMBLY, 206A/B HIGH AFT
3						1				D206-667-143	CROSSTUBE ASSEMBLY, 206L/L-1/L-3/L-4 HIGH FWD
										D000 007 040	CROSSTUBE ASSEMBLY,
4							1			D206-667-243	206L/L-1/L-3/L-4 HIGH AFT
				_						D407-667-145	CROSSTUBE ASSEMBLY, 407 HIGH FWD
5					_			1	-	D407-667-145	CROSSTUBE ASSEMBLY, 407 HIGHT WE
6									1	D407-067-245	CROSSTOBE ASSEMBLT, 407 THOTTALT
-10				*2	*2	*2		*2		D2891-1	SUPPORT
10				Z	<u> </u>		*2			D2892-1	SUPPORT
11									*1	D2894-1	SUPPORT
12				*2	*2	*2		*2	<u> </u>	D2856-400-694	ABRASION STRIP
13	<u> </u>	ļ					*2		*2	D2856-400-773	ABRASION STRIP
14 15		_			-				*1	D2856-600-851	ABRASION STRIP
16	ļ <u>.</u>	<u> </u>		*4	*4	*4	<del>                                     </del>	*4	<del>  '-</del>	MS21920-20	CLAMP
17	<u> </u>			-4-	-		*4		*4	MS21920-22	CLAMP
18	<del> </del>				_				*2	MS21920-24	CLAMP
19	<del> </del>	-		4	4	4		4		AN5-32A	BOLT
20						7	4		4	AN5-34A /	BOLT
21				4	4	4	4	4	4	MS21042L5	NUT (OR MS21042-5)
22				8	8	8	8	8	8	AN960JD516	WASHER
23				-	-		<u> </u>	–	*2	D3190-1	CHAFING SHIELD
23	<b></b>						_				
30	8			<u> </u>						AN4-6A	BOLT
31	8				-		<b>-</b>			AN4-7A	BOLT
32	16			<del>                                     </del>	<u> </u>		<u> </u>		<b>—</b> —	AN960JD416	WASHER
33	2	<del>                                     </del>			<del>                                     </del>					D3193-041	SPACER BLOCK ASSEMBLY
	<del>                                     </del>			<u> </u>			<b>├</b> ┈─				
40		2		*2	<b>†</b>	*2	*2	*2	*2	D2873-043	NUT PLATE
41		2		*2		*2	*2	*2	*2	D2873-045	NUT PLATE
42	t-	<del> </del>	2	l	2					D2872-043	NUT PLATE
43		<b> </b>	2		2					D2872-045	NUT PLATE
44		10		10		10		T		AN5-7A	BOLT
45		10	10		10		10	10	10	AN5-10A	BOLT
46		4	4	4	10	4		4		AN5-30A	BOLT
47	†	4					4		4	AN5-32A	BOLT
48	<b>†</b>	18	18	10	12	10	10	10	10	AN960JD516	WASHER
49		4	4		6					MS21042L5	NUT (OR MS21042-5)

\*REFERENCE ONLY. PARTS ARE INCLUDED IN D206-667-141/241/143/243, & D407-667-145/245 ASSEMBLIES ABOVE

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Revision: C

Date: 05.07.26

## DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D206-667 REV. C AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-667 REV. 2

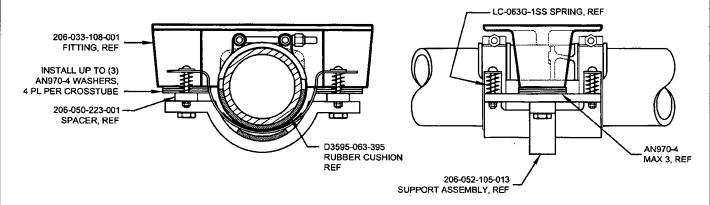
REF CANADIAN STC: SH01-5 REFERENCE ONLY
REF FAA STC: SR01304NY
REF EASA STC: EASA.IM.R.S.01179

#### PROBLEM:

FOR D206-667-103 CROSSTUBES (206L FWD) AT CHG 003 AND SUBSEQUENT (SEE DSI 9415) PROPER INSTALLATION OF THE OEM SUPPORT ASSEMBLIES MAY BE IMPOSSIBLE DUE TO THE ADDITIONAL THICKNESS OF THE DART D3595-063-395 RUBBER CUSHIONS. THE 206-052-105-013 SUPPORT ASSEMBLY (OR EQUIVALENT) MAY SIT TOO HIGH RELATIVE TO THE 206-033-108-001 FITTING, CAUSING THE LC-063G-1SS SPRING (OR EQUIVALENT) TO BE OVERLY COMPRESSED.

#### **SOLUTION:**

IT IS ACCEPTABLE TO LOWER THE SUPPORT ASSEMBLY BY INSTALLING UP TO QTY (3) AN970-4 WASHERS BETWEEN THE 206-033-108-001 FITTING (OR EQUIVALENT) AND THE 206-050-223-001 SPACER (OR EQUIVALENT). SEE FIGURE BELOW FOR REFERENCE.



#### CROSSTUBE SECTION: SUPPORT DETAIL

#### **PARTS LIST:**

THE FOLLOWING PARTS HAVE BEEN INCLUDED WITH D206-667-103 CROSSTUBES AT CHG 004 AND SUBSEQUENT

ITEM	Qty -103	PART NUMBER	DESCRIPTION
60	12	AN970-4 /	WASHER

DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:
D. SHEPHERD (DE # 02)

DATE:
08.12.17
CERT. NO.:
SH01-5
ISSUE NO.:
3

CANADA

				_				
Α	NEW ISSUE			СР	08.12.17			
REV.			DESCRIPTION	BY	DATE			
DESIGN		q)	DART AEROSP	DART AEROSPACE LTD				
DRAWN	DRAWN 9		HAWKESBURY, ONTARIO, CANADA					
CHECKE	CHECKED PH		DRAWING NO.		REV. A			
MFG. AF	MFG. APPR. N/A		DSI 9439	5	SHEET 1 OF 1			
APPRO\	APPROVED _		TITLE		SCALE			
DE APPR.		4	206L FWD XTUBE SUPPORT MOD. NTS					
DATE 08.12.17			THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLINGT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUN WRITTEN PERMISSION FROM DART /	ED ON THE EXPRE	SS CONDITION THAT IT IS			



### LIQUID PENETRANT TEST REPORT

ACUREN		
		PAGEOF
CLIENT Da	rt Aerospace	DATE OCT 28 2010 TIME AM & PM 0
ATTENTION Lind	a Lacelle	ACUREN JOB NO. 188-10-0933
	a Aberdeen St.	PO/WO No. 1/28281
	ukas buna	WORK LOCATION Hawkes burg
		ACCEPTANCE STD. 1571 1414/01-038 REV./Date 2005
PROJECT X-TU	bes # D206-667-103 8	
ITEM(S) EXAMINED Tok	#5:62310,62743,627	44.62600.62601
(0)	- Je	
JOB DESCRIPTION	PROCEDURE NO. LT-CCCZ_REV./DATE	TECHNIQUE NO. LT-TECH CZ REV./DATE
PART NO. D266-6	67-103 8 17206-667-103 32	MATERIAL ALODINOD ALOM THICKNESS WA
SCOPE WET FLO	URESCENT LIQUID PEN	TRANT INSPECTION CARRIED OUT ON
	YTERNAL SURFACE OF TH	
TEST DETAILS		
METHOD	FLUORESCENT  VISIBLE	WATER WASH
	GAZLIUX MINIMUM DWELL TIME TOYS MIN	BLACK LIGHT S/N 2178 □ OUTPUT > 1000 µ W/cm² □ AMBIENT < 2 fc LIGHTING EQUIP. □ FLASHLIGHT □ TROUBLELIGHT □ OUTPUT>100 fc @ SURFACE
PENETRANT ZLG PENETRANT REMOVER	MINIMUM DWELL TIME 75-75 MIN  11-20 MINIMUM DRY TIME >10 MIN	OTHER call act 15th Joic
DEVELOPER SKD	MINIMUM DWELL TIME 10 MIN	CAL DUE DATE DATE DATE DATE
المراجع والمناطق والمناطق والمراجع والمناطق والم	NON AQUEOUS AQUEOUS DRY	
TEST SURFACE	As GROUND AS WELDED	■ MACHINED □ SHOT BLASTED ■ CLEAN BARE METAL
SURFACE CONDITION SURFACE TEMPERATURE		WACHINED COLORS
	METRIC   IMPERIAL)	
PENETRAUT OUT ON 100° ON X-TUBE 50 45: 62310 6274 62601 62601	Acceptable  3: Acceptable  1: Acceptable  1: Acceptable  1: Acceptable  1: Acceptable	ant 10 29
The agreement of Activen Group Inc. to p that all descriptions, comments and expr representations or warranties. Activen G data or other information provided by Ac	exsions of opinion reflect the opinions or observations of Activen Group living the, is not assuming any responsibilities of the owner/operator and curen Group Inc. In no event shall Acaren Group Inc.'s liability in respectiven Group Inc. uses the degree, cure and skill ordinarily exercised under	nder no circumstances shall such services extend beyond the performance of the requested services. It is expressly understood are, based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as the owner/operator retains complete responsibility for the engineering, manufacture, repair and use decisions as a result of the 1 of the services referred to herein exceed the amount puid for such services.  Similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or
SIGNATURES	- Andrews	
CLIENT REPRESENTATIVE	Matty Mursal Me	att Mundom DTR# E 63201
TECHNICIAN (SIGNATURE):	Talia	REPORT REVIEWED BY:
NAME (PRINT):	FREDERICA CHASNON	NAME INITIALS  2*** TECHNICIAN
	CGSB Level # SNT Level # CGSB CGSB Reg. No / 560 CGSB	